

#### ABSTRACT OF THE DISCLOSURE

An antibacterial device has a surface with a layer that releases ions with an antibacterial effect, e.g. silver ions. The effect of silver is strongly antiseptic even in the bound state, since silver ions contained in the oxide layer of the metal surface exert a blocking effect on the thiol enzymes in the microorganisms. By using a layer that releases silver ions, the risk of bacterial infections can be clearly reduced. Other ions with an antibacterial effect, e.g. copper, can be used by themselves or together with the silver ions. The device may also have a layer having a matrix that is preferably made of plastic. The matrix serves to continuously release silver ions or other ions with an antibacterial effect. With a continuous release of metal ions, a long-lasting antibacterial effect in the tissue is achieved by the surface.

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